Notice of Allowability	Application No.	Applicant(s)
	10/662,767	YOKOHATA, TORU
	Examiner	Art Unit
	Natalia Figueroa	2651
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment (filed 17 March 2005)</u> .		
2. The allowed claim(s) is/are <u>2-18</u> .		
3. The drawings filed on 15 September 2003 are accepted by the Examiner.		
 4.		
Attachment(s) 1. □ Notice of References Cited (PTO-892) 2. □ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal Pa 6. ☐ Interview Summary	atent Application (PTO-152) (PTO-413).
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Date	e
Paper No./Mail Date		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ☑ Examiner's Stateme 9. ☐ Other	nt of Reasons for Allowance
o. Diological Material	9. 🔲 Other	

REASONS FOR ALLOWANCE

Allowable Subject Matter

- 1. Claims 2-18 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

RE claim 6, the prior art of record, and in particular Ottensen et al (USPN 5,870,241), fails to teach or suggest a method of detecting a protrusion comprising obtaining an index signal specifying a standard attitude of the recording medium; generating a sine wave signal based on a period of the index signal the sine wave signal specifying an angle of rotation of the recording medium from the standard attitude of the recording medium.

RE claim 7, the prior art of record, and in particular Ottensen et al (USPN 5,870,241), fails to teach or suggest a method of detecting comprising generating a cosine wave signal based on a period of the index signal, the cosine wave signal specifying the angle of rotation of the recording medium from the standard attitude of the recording medium.

RE claim 13, the prior art of record, and in particular Ottensen et al (USPN 5,870,241), fails to teach or suggest a detecting apparatus comprising a function generating circuit designed to generate a sine wave signal and a cosine wave signal based on rotation of the recording medium; a first multiplying circuit designed to multiply a detection signal from an acoustic emission sensor by the sine wave signal so as to generate a first reference signal, the detection signal designating an elastic wave between a target object and a surface of the recording medium; and a second multiplying circuit designed to multiply a detection signal from the acoustic emission sensor by the cosine wave signal so as to generate a second reference signal;

Application/Control Number: 10/662,767

Art Unit: 2651

3. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Natalia Figueroa whose telephone number is (571) 272-7554.

The examiner can normally be reached on Monday - Thursday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NFM

SUPERVISORY PATENT EXAMINER

Page 3

TECHNOLOGY CENTER 2600